

LAND APPLICATION SITE

CHARLES L. MORTON

GRCLM 1 - 7

GREENE COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 7-1-14 between Stanley A. Morton referred to here as "Landowner", and Recyc Systems, Inc.; referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Greene Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>TM 49 Parcel 19B</u>			
<u>37-3-A2</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<u>Stanley A. Morton</u>	<u>P.O. Box 29</u>
Landowner - Printed Name, Title	Mailing Address & Phone Number
<u>Stanley A. Morton</u>	<u>Rockersville, Va. 22968</u>
Signature	

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>Shirley</u>	<u>Shirley</u>	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc — County or City: Greene Co.
 Landowner: Stanley A. Morton

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Stanley A. Morton
 Landowner's Signature

7-1-14
 Date

Same
 Farm Operator Signature

P.O. Box 29
Ruckersville, VA 22968
 Mailing Address & Phone Number

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: Greene

Landowner: Carol Morton

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

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 - a. Meat producing livestock shall not be grazed for 30 days,
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5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

X Carol Morton
Landowner's Signature

2/8/18
Date

X [Signature]
Farm Operator Signature

P.O. Box 29
Ruckersville, VA 22968
Mailing Address & Phone Number

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 10-14-15 between Angela Morton referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Greene, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>49-A-19C</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
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The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<u>Angela Denise Morton</u>	<u>Angela Denise Morton</u>	<u>PO Box 29 Ruckersville VA 22968 (434) 985-7734</u>
Landowner - Printed Name, Title	Signature	Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>Stanley</u>	<u>Stanley</u>	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Greene
 Landowner: Angela Morton

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Angela Denise Morton
 Landowner's Signature

10/11/15
 Date

[Signature]
 Farm Operator Signature

PO Box 29 Rockcastle, Va
 Mailing Address & Phone Number
22968

FARM DATA SHEET

SITE NAME:	Charles L. Morton	COUNTY:	Greene
OWNER:	Stanley A. and Carol H. Morton; Angela Denise Morton	OPERATOR:	Stanley A. Morton
OWNER'S ADDRESS:	P.O. Box 29 Ruckersville, VA 22968	OPERATOR'S ADDRESS:	P.O. Box 29 Ruckersville, VA 22968
OWNER'S TELEPHONE:	434-985-7736	OPERATOR'S TELEPHONE:	434-985-7736
GENERAL FARM TYPE:	Pasture/ Hay	CELL PHONE:	434-960-1589 (Charles-Brother)
# CATTLE:	150	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	36.271
TOPO QUAD:	Stanardsville	LONGITUDE:	78.441
COMMENTS:	METHOD OF DETERMINATION: Online Maps		
Before spreading operations occur, please check all fields for rock outcrops and slope.			

BB 

2-22-18

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	DEQ Control ID	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
			Water Table	Bed Rock/Shallow	Surf/ Leach	Freq Flood			
GRCLM 1	51079-00048-0000	20.5	-	AsC, AsD	-	-	JR 10	49-A-19B 49-A-19C	T 3312 F 3
GRCLM 2	51079-00049-0000	38.5	Sc Nov.-Apr.	AsC, AsE	-	Sc Dec.-May	JR 10	49-A-19B 49-A-19C	T 3312 F 2
GRCLM 3	51079-00050-0000	11.9	Sc Nov.-Apr.	AsE	-	Sc Dec.-May	JR 10	49-A-19B 37-3-A2	T 3312 F 4 T 3360 F 2
GRCLM 4	51079-00051-0000	59.6	-	AsD, AsE	-	-	JR 10	49-A-19B 37-3-A2	T 3360 F 1 T 1111 F 5
GRCLM 5	51079-00052-0000	5.4	-	-	-	-	JR 10	49-A-19B	T 1111 F 3
GRCLM 6	51079-00053-0000	6.7	-	AsD	-	-	JR 10	49-A-19B	T 1111 F 4
GRCLM 7	51079-00054-0000	48.5	BaB Jan.-Apr. Kn Nov.-May Sc Nov.-Apr.	AsD	-	Sc Dec.-May	JR 10	49-A-19B	T 3312 F 1 T 1111 F 1, 2, 3
TOTAL ACRES IN SITE		191.1							

8-25-2020

Landowner Coordination Form

Permittee: Recyc Systems, Inc

County or City: Greene

Signature not required on this page

[illegible]

Report Number: 14-188-0616

Account Number: 70594



www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
CHARLES L MORTON
GREENE CO

Submitted By: SD
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 07/07/2014

Date Of Analysis: 07/08/2014

Date Of Report: 07/08/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1 GRCLM	23586	6.1	H	150	35	M			121	M	195	M	1640	H			6.1	6.77	1.6	11.7
2A GRCLM	23587	7.3	VH	150	80	H			347	VH	183	L	2356	H	6.5		6.5	6.82	1.1	15.3
2B GRCLM	23588	7.4	VH	150	71	H			298	VH	165	L	2150	H			6.5	6.83	1.0	13.9
3 GRCLM	23589	5.4	H	145	50	M			102	M	144	M	1047	M			5.4	6.67	2.6	9.3
4A GRCLM	23590	6.4	H	150	52	H			229	VH	181	M	1759	H	6.2		6.2	6.78	1.5	12.4

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
1 GRCLM	2.7	13.9	70.1		13.8																			
2A GRCLM	5.8	10.0	77.0		7.4																			
2B GRCLM	5.5	9.9	77.3		7.4																			
3 GRCLM	2.8	12.9	56.3		28.4																			
4A GRCLM	4.7	12.2	70.9		12.1																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 14-188-0616

Account Number: 70594



www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower: CHARLES L MORTON
GREENE CO

Submitted By: SD
Farm ID:

Date Received: 07/07/2014

Date Of Report: 07/08/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1 GRCLM	Adjust pH to 6.8	0	1.5				0						
2A GRCLM	Adjust pH to 6.8	0	1.0	1.0			0						
2B GRCLM	Adjust pH to 6.8	0	1.0				0						
3 GRCLM	Adjust pH to 6.8	0	2.5				0						
4A GRCLM	Adjust pH to 6.8	0	1.5	1.3			0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paucic McGeary

Paucic McGroary

Report Number: 14-188-0616

Account Number: 70594



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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
CHARLES L MORTON
GREENE CO

Submitted By: SD
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 07/07/2014

Date Of Analysis: 07/08/2014

Date Of Report: 07/08/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
4B GRCLM	23591	6.6	H	150	66	H			224	VH	194	M	1800	H			6.2	6.78	1.5	12.7
4C GRCLM	23592	6.6	H	150	59	H			198	VH	181	M	1667	H			6.3	6.81	1.2	11.6
5 GRCLM	23593	7.8	VH	150	76	H			272	VH	165	M	1209	M			5.6	6.68	2.5	10.6
6 GRCLM	23594	5.9	H	150	50	M			117	M	234	H	1329	M			6.0	6.77	1.6	10.5
7A GRCLM	23596	5.4	H	143	69	H		99	95	L	136	M	1631	H		6.2	6.4	6.84	0.9	10.5

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm	S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	SS ms/cm	Cl ppm	Al ppm
4B GRCLM	4.5	12.7	70.9		12.2										
4C GRCLM	4.4	13.0	71.9		10.5										
5 GRCLM	6.6	13.0	57.0		23.3										
6 GRCLM	2.9	18.6	63.3		15.4										
7A GRCLM	2.3	10.8	77.7		8.9										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 14-188-0616

Account Number: 70594



www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower: CHARLES L MORTON
GREENE CO

Submitted By: SD
Farm ID:

Date Received: 07/07/2014

Date Of Report: 07/08/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
4B GRCLM	Adjust pH to 6.8	0	1.5				0						
4C GRCLM	Adjust pH to 6.8	0	1.0				0						
5 GRCLM	Adjust pH to 6.8	0	2.5				0						
6 GRCLM	Adjust pH to 6.8	0	1.5				0						
7A GRCLM	Adjust pH to 6.8	0	1.0	1.3			0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paucic McGeary

Paucic McGroary

Report Number: 14-188-0616

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CULPEPER VA 22701

Grower:
CHARLES L MORTON
GREENE CO

Submitted By: SD
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 07/07/2014

Date Of Analysis: 07/08/2014

Date Of Report: 07/08/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
7B GRCLM	23597	5.3	H	142	71	H			96	L	128	M	1611	H			6.5	6.86	0.7	10.1
7C GRCLM	23598	5.6	H	146	52	H			107	M	183	M	1491	M			5.8	6.71	2.2	11.4

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
7B GRCLM	2.4	10.6	79.8		7.4																			
7C GRCLM	2.4	13.4	65.4		19.1																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGroary

Report Number: 14-188-0616

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CHARLES L MORTON
GREENE CO

Submitted By: SD

Farm ID:

Date Received: 07/07/2014

Date Of Report: 07/08/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
7B GRCLM	Adjust pH to 6.8	0	1.0				0						
7C GRCLM	Adjust pH to 6.8	0	2.0				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paucic McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2018-Summer, 2020)
Charles L. Morton
Planner: John Doe

Tract: 1111 Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3/GRCLM 5(N)	7/7	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A			
4/GRCLM 6(N)	6/6	2018	Grass Pasture	50-0-40	0/0				50-0-40	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3312

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3/GRCLM 1(N)	20/20	2018	Fescue grass hay mt.	90-80-160	0/0				90-80-160	N/A			
2/GRCLM 2(N)	40/40	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A			
4/GRCLM 3(N)	13/13	2018	Fescue grass hay mt.	90-60-170	0/0				90-60-170	N/A			
1/GRCLM 7(N)	45/45	2018	Fescue grass hay mt.	70-40-95	0/0				70-40-95	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3360

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
1/GRCLM 4(N)	59/59	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1111	GRCLM 5	7	2014-Su	H (76 P ppm)	VH (272 K ppm)	A&L MIII	5.6		
1111	GRCLM 6	6	2014-Su	H- (50 P ppm)	M+ (117 K ppm)	A&L MIII	6.		
3312	GRCLM 1	20	2014-Su	M (35 P ppm)	M+ (121 K ppm)	A&L MIII	6.1		
3312	GRCLM 2	40	2014-Su	H (76 P ppm)	VH (323 K ppm)	A&L MIII	6.5		
3312	GRCLM 3	13	2014-Su	H- (50 P ppm)	M (102 K ppm)	A&L MIII	5.4		
3312	GRCLM 7	45	2014-Su	H- (64 P ppm)	M (99 K ppm)	A&L MIII	6.2		
3360	GRCLM 4	59	2014-Su	H (89 P ppm)	H+ (217 K ppm)	A&L MIII	6.2		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1111	1111/3	GRCLM 5*	7	Buckhall	IVb	III	III	III	High Slope
	1111/4	GRCLM 6*	6	Glenelg	V	V	Not Suited	Not Suited	High Leaching, High Slope
3312	3312/3	GRCLM 1*	20	Ashe	IVa	III	III	III	High Leaching, High Slope
	3312/2	GRCLM 2*	40	Buckhall	IVa	III	III	III	High Leaching, High Slope
	3312/4	GRCLM 3	13	Suches	Ila	II	II	II	
	3312/1	GRCLM 7	45	Belvoir	IVb	IV	III	IV	
3360	3360/1	GRCLM 4*	59	Buckhall	IVb	III	III	III	High Leaching, High Slope

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Spring, 2018 - Summer, 2020**

Farm Name: **Charles L. Morton**

Location: Greene

Specialist: John Doe

N-based Acres: 190.2

P-based Acres: 0.0

Tract Name: **1111**

FSA Number: 1111

Location: Greene

Field Name: **GRCLM 5**

Total Acres: 6.90 Usable Acres: 6.90

FSA Number: 3

Tract: 1111

Location: Greene

Slope Class: D Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	5.6	H(76 P ppm)	VH(272 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

78	BuD	Buckhall
3	EnC3	Elioak
19	MvB	Meadowville

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Field Name: GRCLM 6

Total Acres: 6.30 Usable Acres: 6.30

FSA Number: 4

Tract: 1111

Location: Greene

Slope Class: D Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	6.0	H-(50 P ppm)	M+(117 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
12	AsD	Ashe
19	BuC	Buckhall
59	GID	Glenelg
7	MvB	Meadowville
3	UnA	Unison

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Tract Name: 3312

FSA Number: 3312

Location: Greene

Field Name: GRCLM 1

Total Acres: 20.10 Usable Acres: 20.10

FSA Number: 3

Tract: 3312

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	6.1	M(35 P ppm)	M+(121 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
20	AsC	Ashe
11	AsD	Ashe

10	BuC	Buckhall
4	BuD	Buckhall
14	ChC	Chester
27	EnC3	Elioak
15	MvB	Meadowville

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with parent slope in excess of 15%

Field Name: GRCLM 2

Total Acres: 40.20 Usable Acres: 40.20

FSA Number: 2

Tract: 3312

Location: Greene

Slope Class: D Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	6.5	H(76 P ppm)	VH(323 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
12	AsC Ashe	

13	AsE	Ashe
28	BuD	Buckhall
10	ChC	Chester
22	EnC3	Elioak
14	Sc	Codorus Suches

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Field Name: GRCLM 3

Total Acres: 12.70 Usable Acres: 12.70

FSA Number: 4

Tract: 3312

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	5.4	H-(50 P ppm)	M(102 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
9	AsE Ashe	

78 Sc Codorus Suches
13 UnA Unison

Field Warnings:

Field Name: GRCLM 7

Total Acres: 45.30 Usable Acres: 45.30

FSA Number: 1

Tract: 3312

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	6.2	H-(64 P ppm)	M(99 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	AsD	Ashe
18	BaB	Belvoir
12	BuD	Buckhall
6	ChC	Chester
15	EnC3	Elioak
14	GlD	Glenelg
11	Kn	Kinkora
23	Sc	Codorus Suches

Field Warnings:

Tract Name: 3360

FSA Number: 3360

Location: Greene

Field Name: GRCLM 4

Total Acres: 58.70 **Usable Acres:** 58.70

FSA Number: 1

Tract: 3360

Location: Greene

Slope Class: D **Hydrologic Group:** B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2014	6.2	H(89 P ppm)	H+(217 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
13	AsD	Ashe
8	AsE	Ashe
12	BuC	Buckhall
30	BuD	Buckhall
9	EIC	Elioak
7	EnC3	Elioak
4	GID	Glenelg
17	MvB	Meadowville

Field Warnings:

Environmentally Sensitive Soils due to:

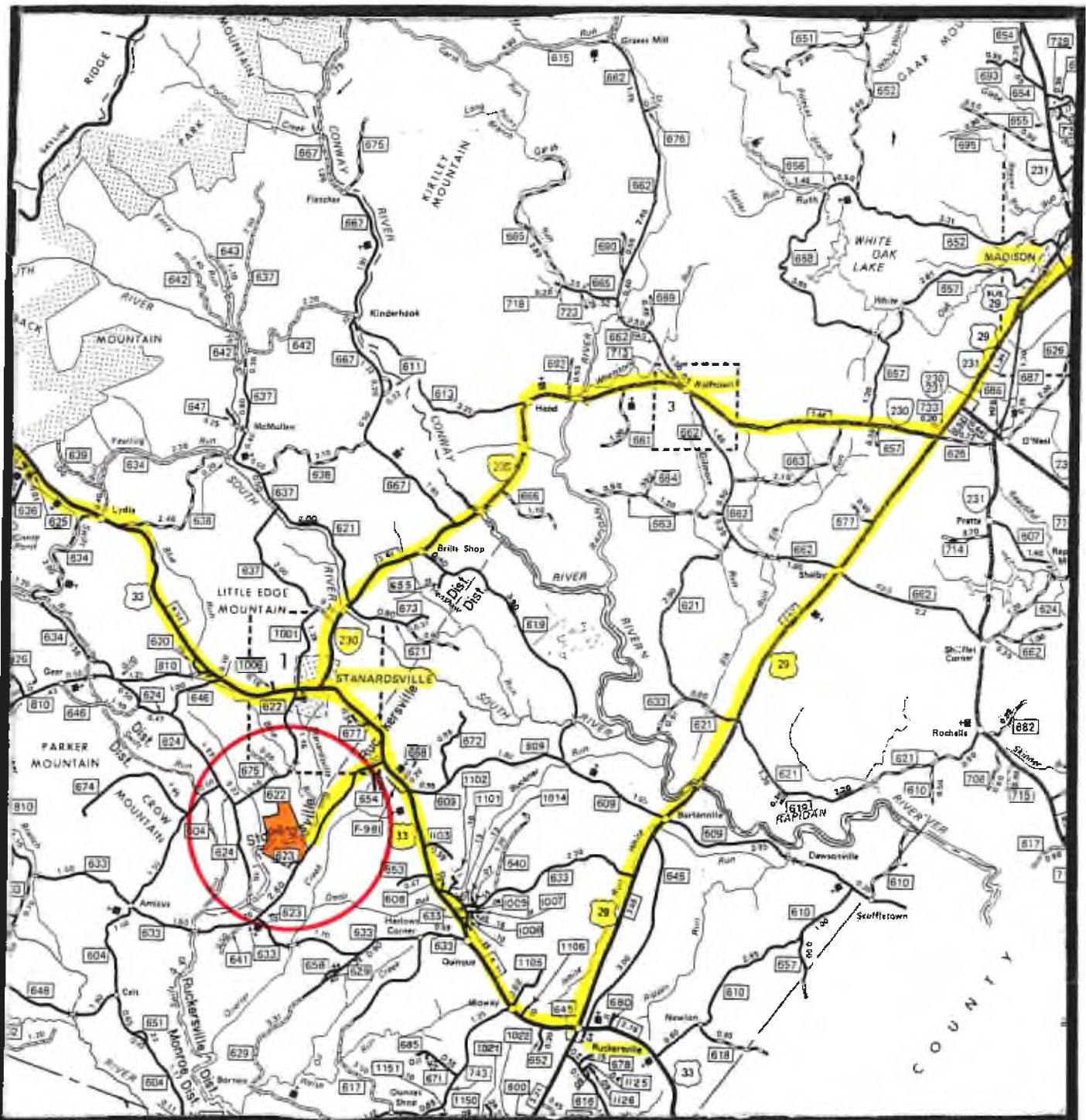
Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

GRCLM 1-7

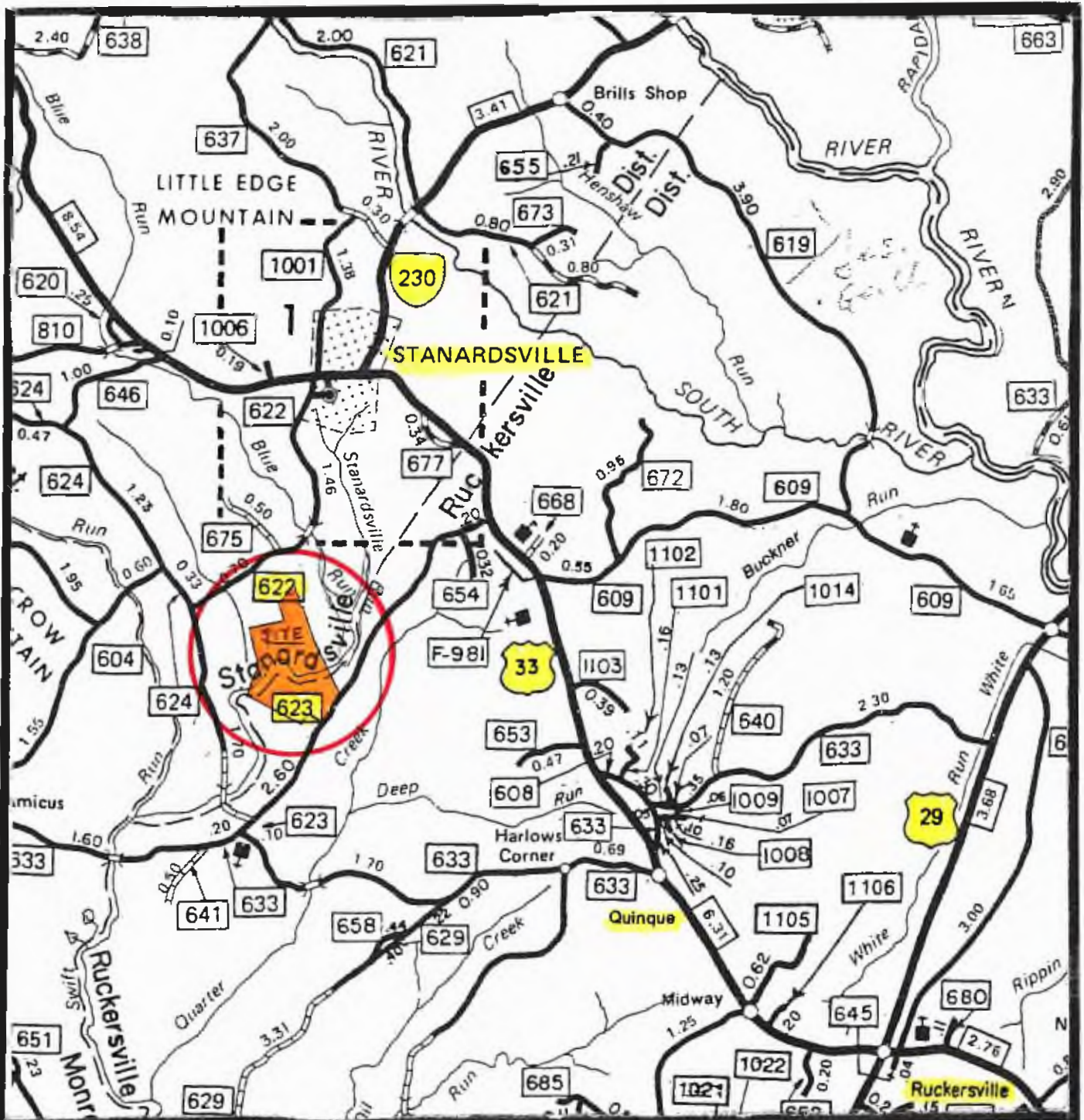
2-22-18

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 1 mile

GRCLM 1-7

2-22-18

VICINITY MAP

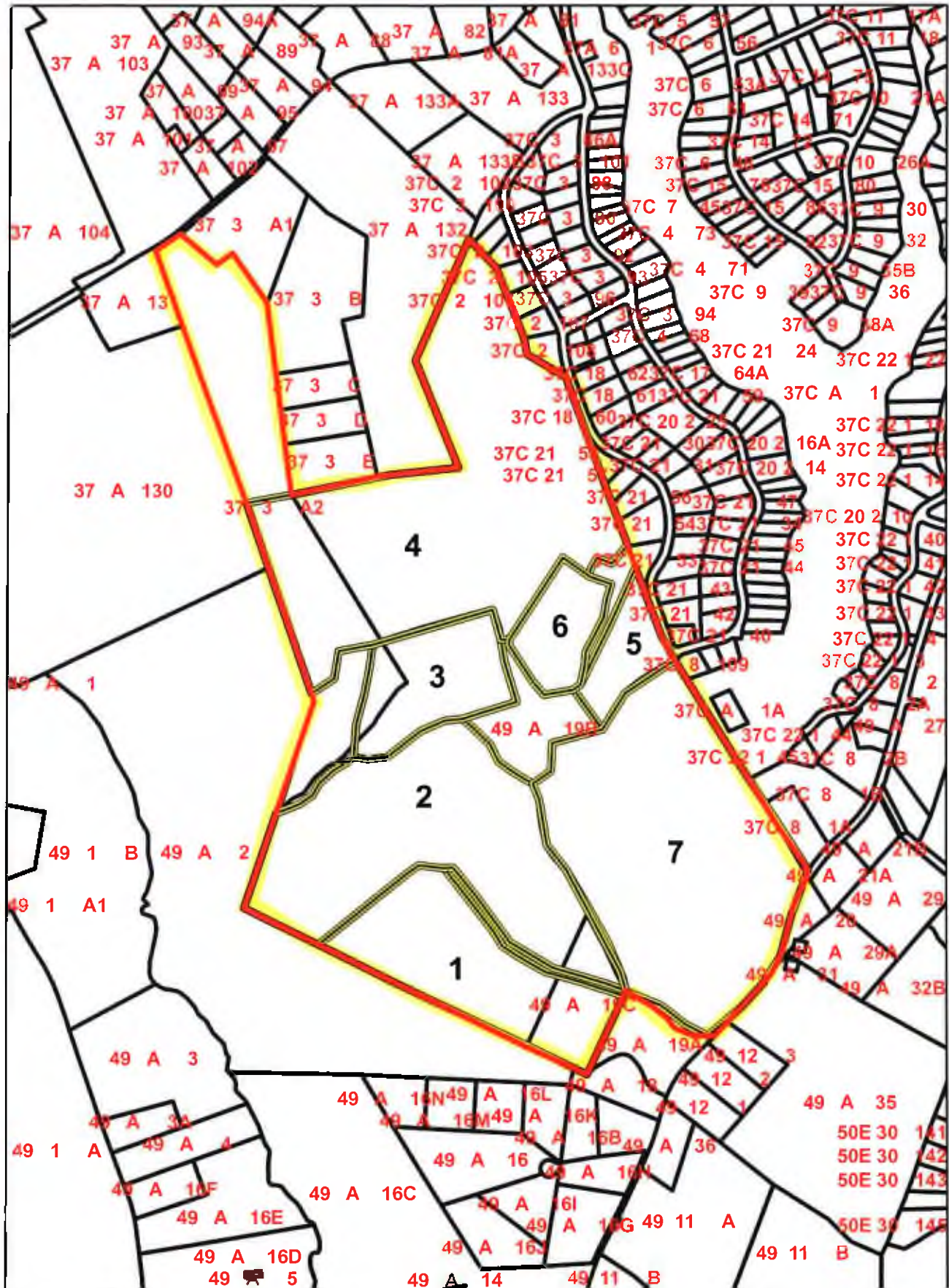




Vicinity Map

1 in = 1 miles





2-22-18

Tax Map

1 in = 833 feet



Tax Map

1 in = 660 feet





This is a detailed cadastral map of a rural area. It features numerous land parcels, each labeled with a unique identifier in red text. These labels often include a letter code followed by a number or another letter, such as '37 A 93', '37 A 88', '37 C 6 50', '49 A 2', and '49 A 3'. Some parcels are further subdivided, indicated by smaller letters like 'A1', 'B', 'C', 'D', and 'E'.

The map is divided into several large, irregularly shaped regions, which are numbered in black: 1, 2, 3, 4, 5, 6, and 7. These numbers likely represent different administrative districts or planning zones.

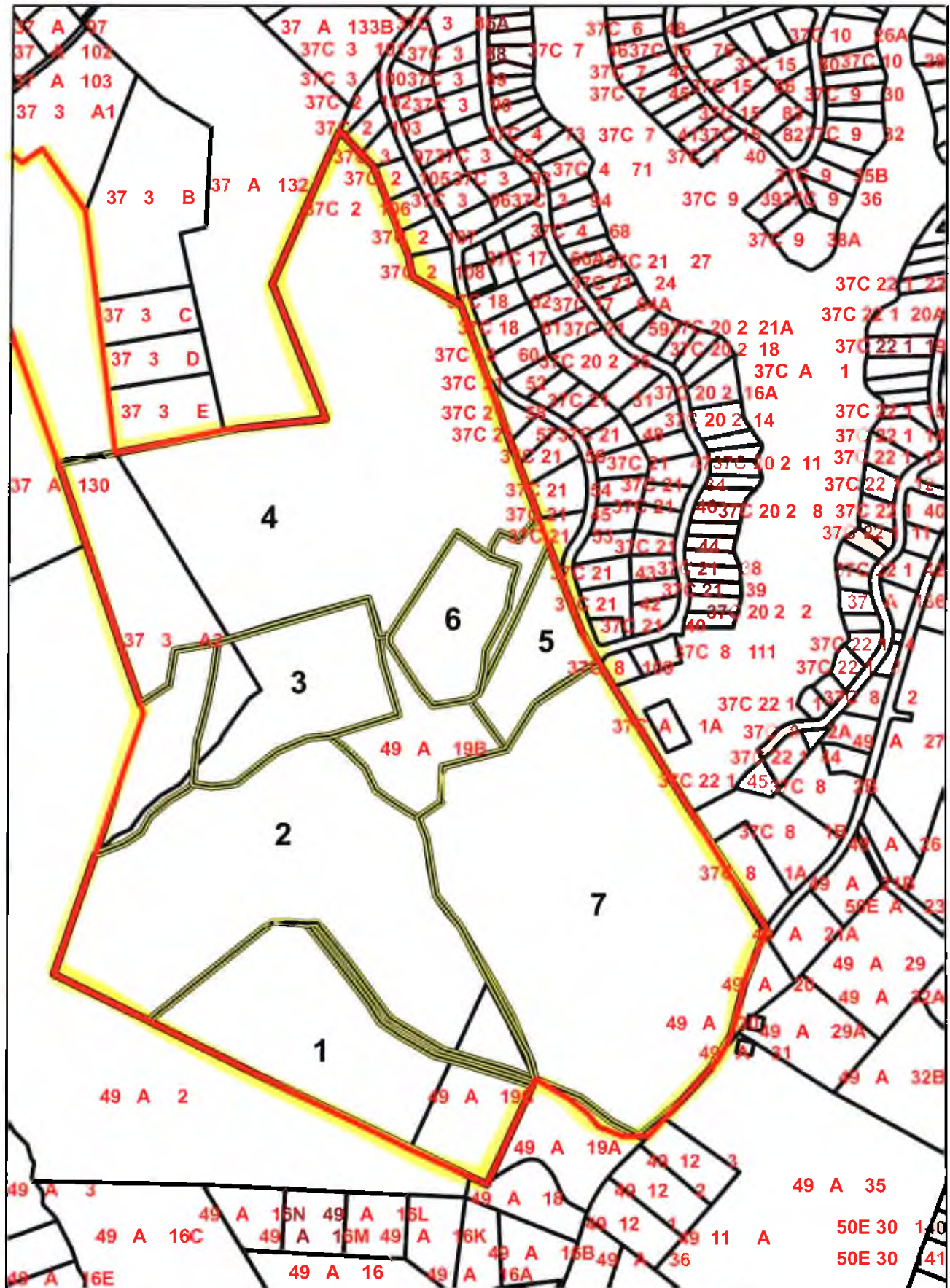
Key visual elements include:

- Parcel Boundaries:** Thin black lines delineate individual land parcels across the entire map.
- Highlighted Areas:** Two prominent areas are outlined in thick red lines. One is a long, narrow strip running diagonally from the upper left towards the bottom center. The other is a more complex shape located in the upper right quadrant. Both highlighted areas also have yellow shading along their inner boundaries.
- Text Labels:** Red text provides the primary identification for each parcel, while black numbers indicate larger regional divisions.

Tax Map

1 in = 660 feet





2-22-18

Tax Map

1 in = 660 feet



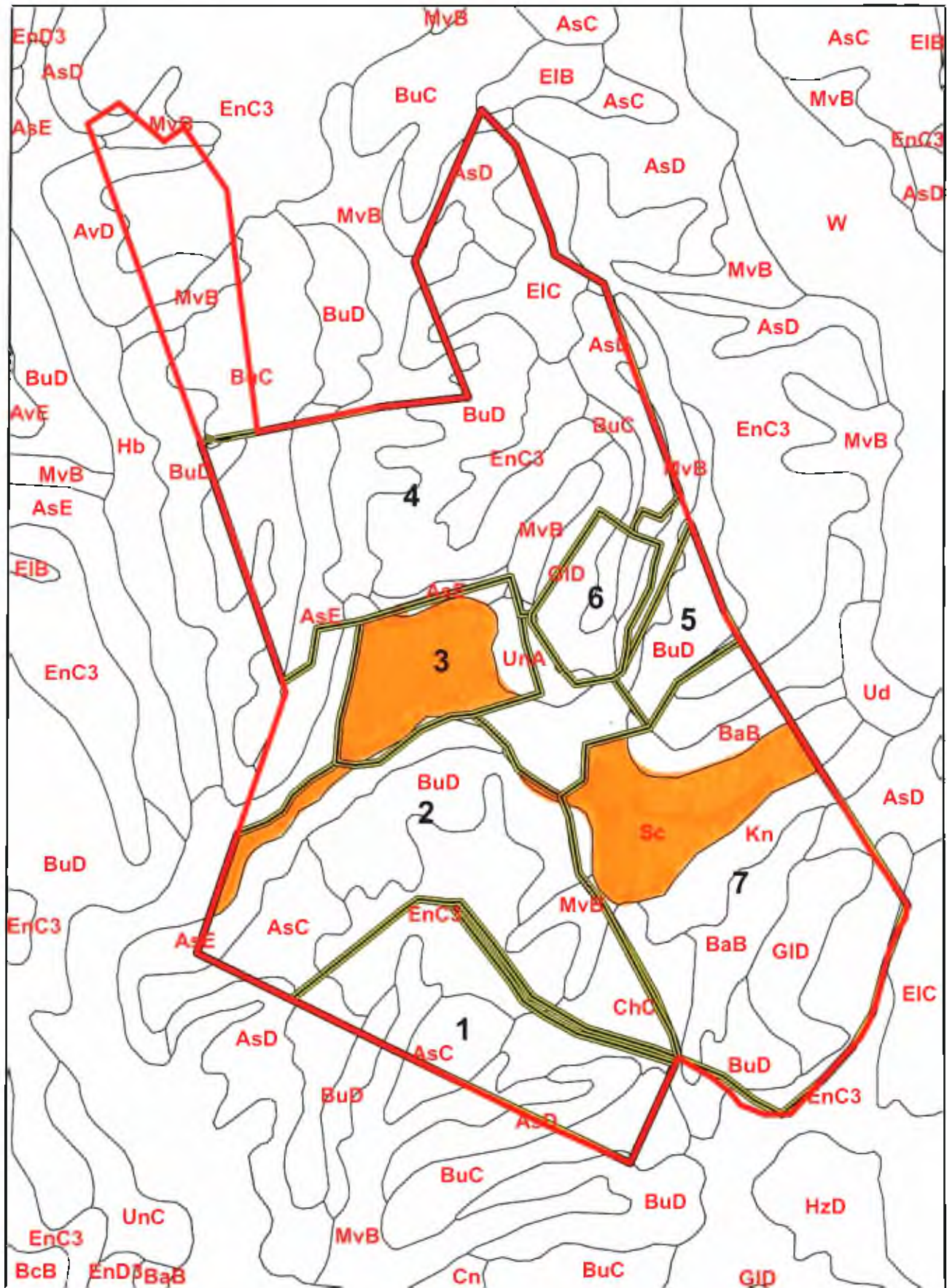
ADJOINING LANDOWNERS

Charles L. Morton

GREENE COUNTY

Tax Map	Parcel #	Owner Name(s)
37	A-103	Clifton Edward Morton
	A-130	Chester Eppard Estate
	A-131	Ronald T. Eppard
	A-132	Larry B. Hall et. als.
	3-A1	John M. and Kimberly M. Spitzmiller Trustees of Spitzmiller Fam Tr.
	3-B	John Michael and Kimberly Ann Spitzmiller co-trustees
	3-C	John Michael and Kimberly Ann Spitzmiller co-trustees
	3-D	John Michael and Kimberly Ann Spitzmiller co-trustees
	3-E	John Michael and Kimberly Ann Spitzmiller co-trustees
37 C	2-102	Thomas E. II and Angela M. Shupe
	2-103	Mona L. Senatro
	2-104	Richard A and Norma J. Lamb
	2-105	Laura Michelle Shifflett
	2-106	Jeremy Powers
	2-107	Cheryl C. Deane c/o Cheryl Courtney
	2-108	Larry J and Janet S. M. Morris
	8-109	Troy C. Coleman
	8-1A	Barbara A. Lamb
	8-1B	George J. and Constance W. Lamb
	18-61	Thomas J. Stellari and Pei-Wei Chen
	18-62	Spencer R. Hornsby
	21-41	Mandy R. Johnson
	21-42	Timothy and Bethany Blaisdell
	21-53	Maria Isabel Clark
	21-54	Gwendolyn A. Miller
	21-56	Ashley M. and Michael L. Conley
	21-57	Ursula J T Winterbauer
	21-58	James R. and Pamela A. Weeks
	A-1	Nathaniel Greene Development Corp.

Tax Map	Parcel #	Owner Name(s)
49	A-2	Hamilton R. Jr. and Heather S. Myers
	A-18	Noble L. and Josie E. Shifflett
	A-19A	Cattle Run Farm LLC
	A-20	Steven D. and Darcey L. Serio
	A-21A	Angela Dawn Fitzgerald
	A-35	Cattle Run Farm LLC
	12-3	Cattle Run Farm LLC



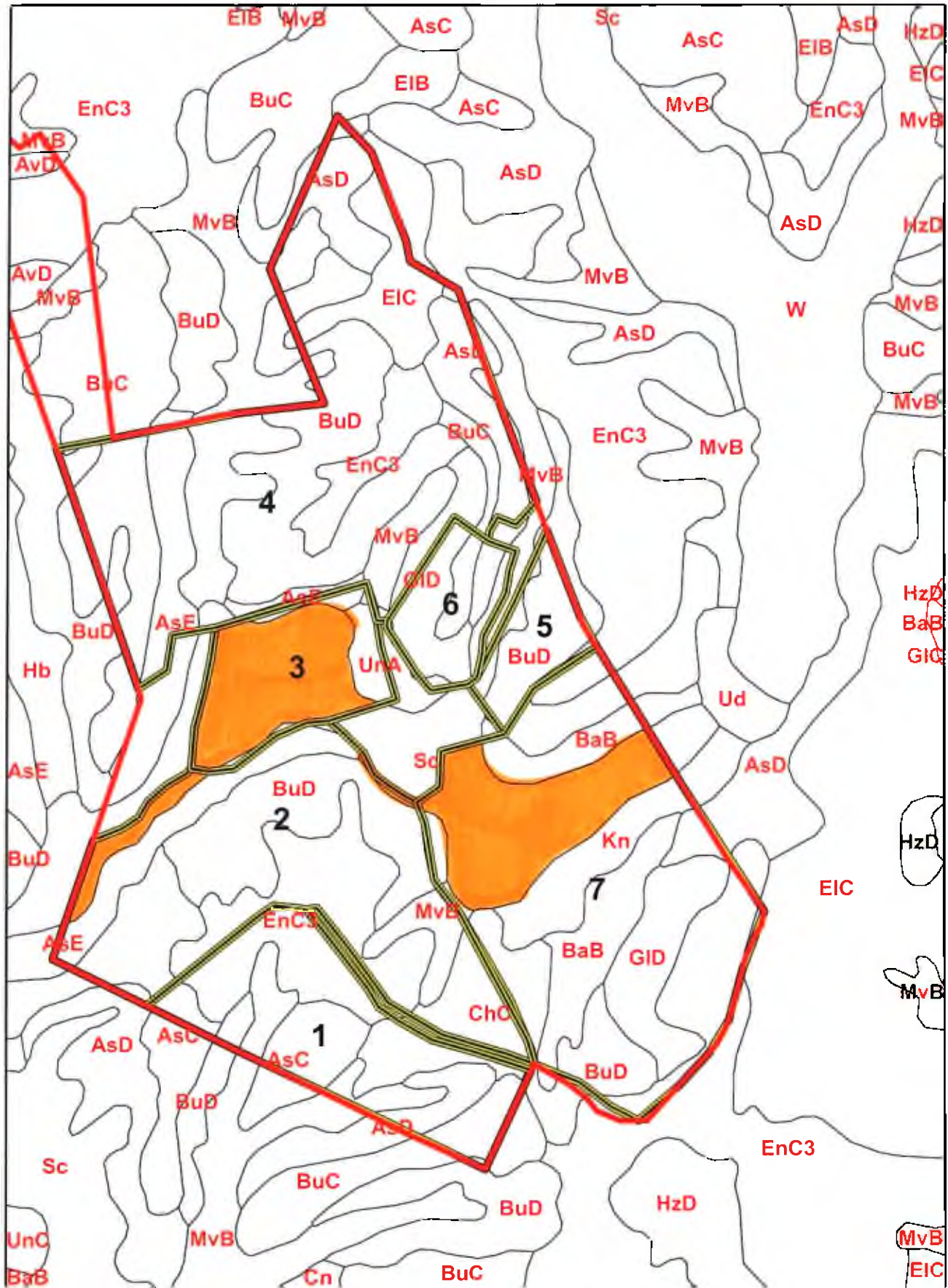
Frequently
Flooded

Soil Map

2-22-18

1 in = 660 feet





 Frequently Flooded

Soil Map

2-22-18

1 in = 660 feet



2-22-18

Aerial Map

1 in = 660 feet



2-22-18

Aerial Map

1 in = 660 feet

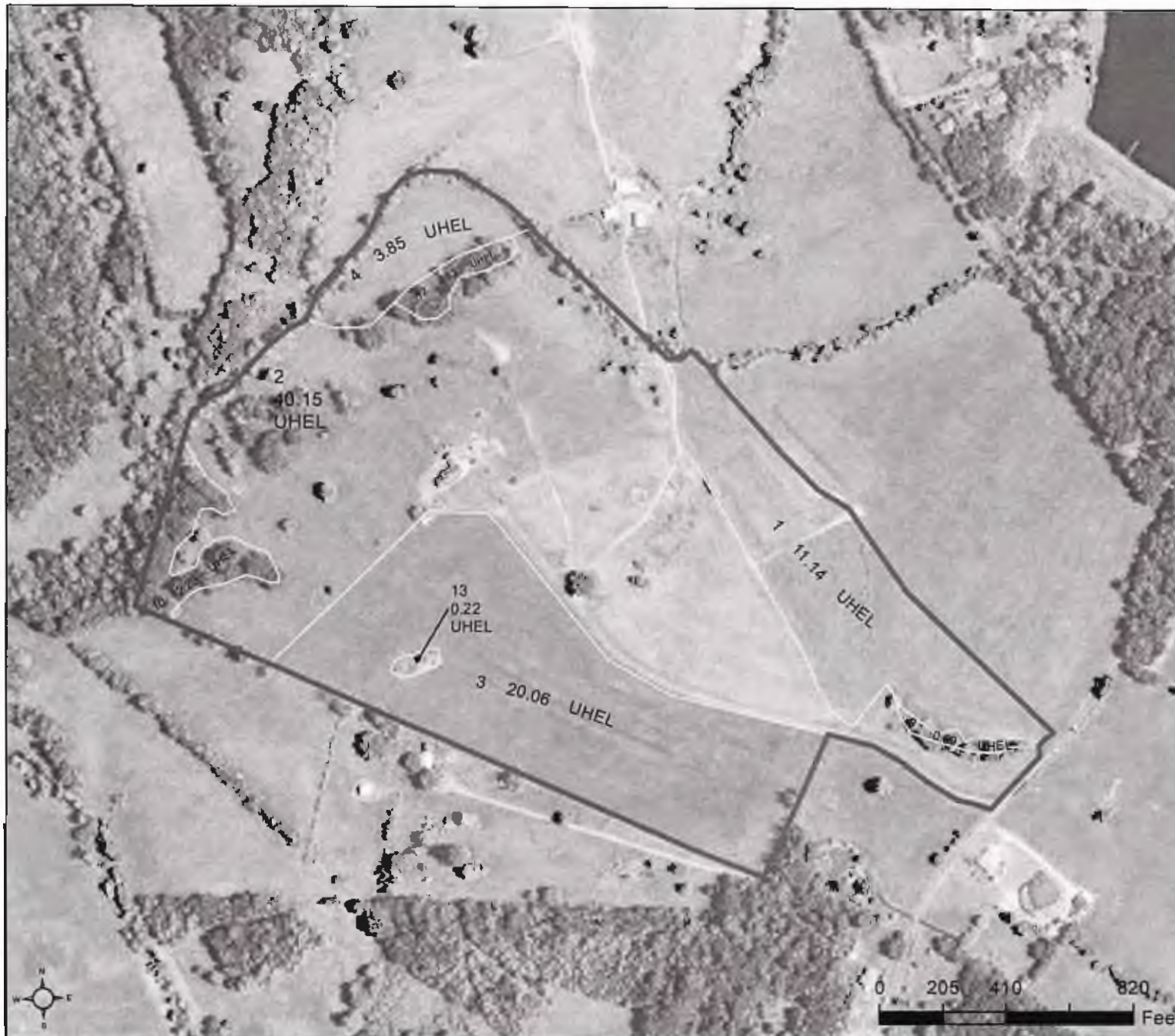


United States
Department of
Agriculture

Greene County, Virginia

Tract 3312

Farm 781



2014 Program Year

Map Created October 31, 2013

Common Land Unit

Cropland

/// Non-cropland

Conservation Reserve Program

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Boundary

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UNITED STATES DEPARTMENT OF
AGRICULTURE



FSN 9999 Tract 1111

Charles Morton

(farm and tract number will change)



Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



UNITED STATES DEPARTMENT OF
AGRICULTURE



0 0.0475 0.095 0.19 Miles

FSN 840 Tract 3360
Stanley Morton



Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

*Buffer can be reduced or waived upon written consent from landowner.

Recd 8/20/19

Inc. (Biosolids Land Application)

GRCLM 1-3

SITE PLAN



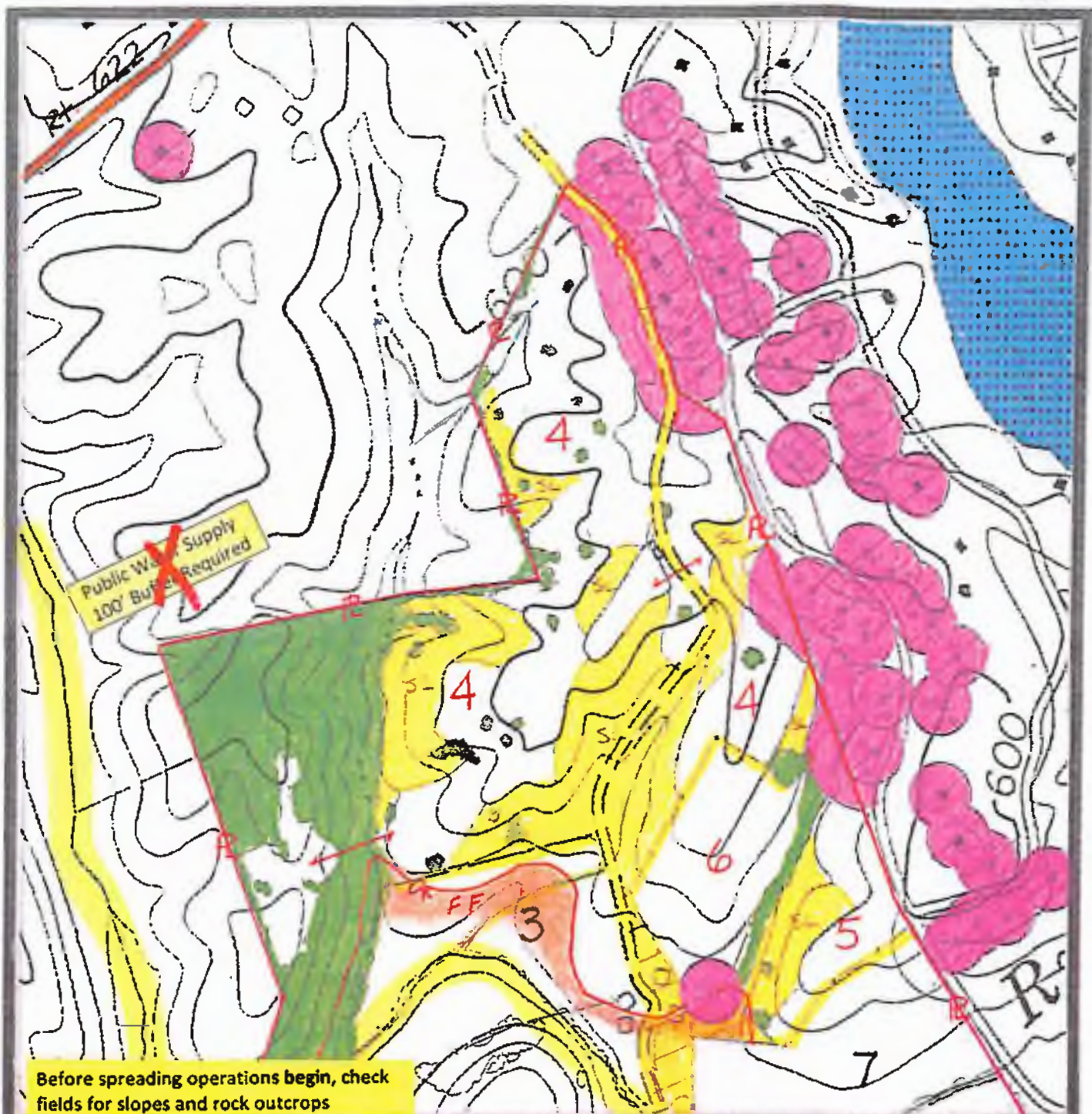
Recyc Systems™

Inc.

(Biosolids Land Application)

Revised
2-6-19

Revised Starting



Scale: 1" = 500'

GRCLM 4-6

SITE PLAN

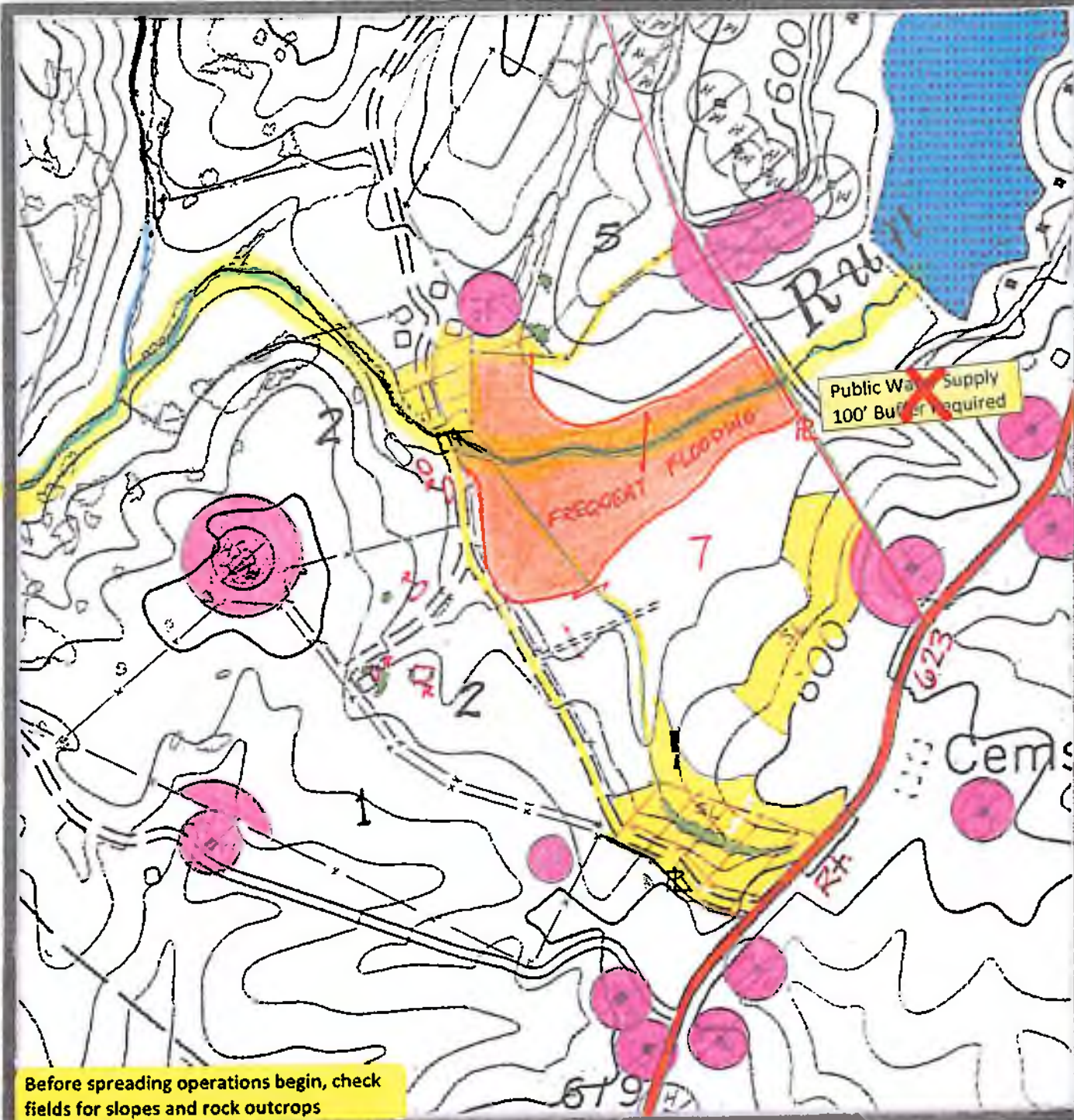


Recyc SystemsTM Inc.

* Revised
2-6-19

revised 5/22/19

(Biosolids Land Application)

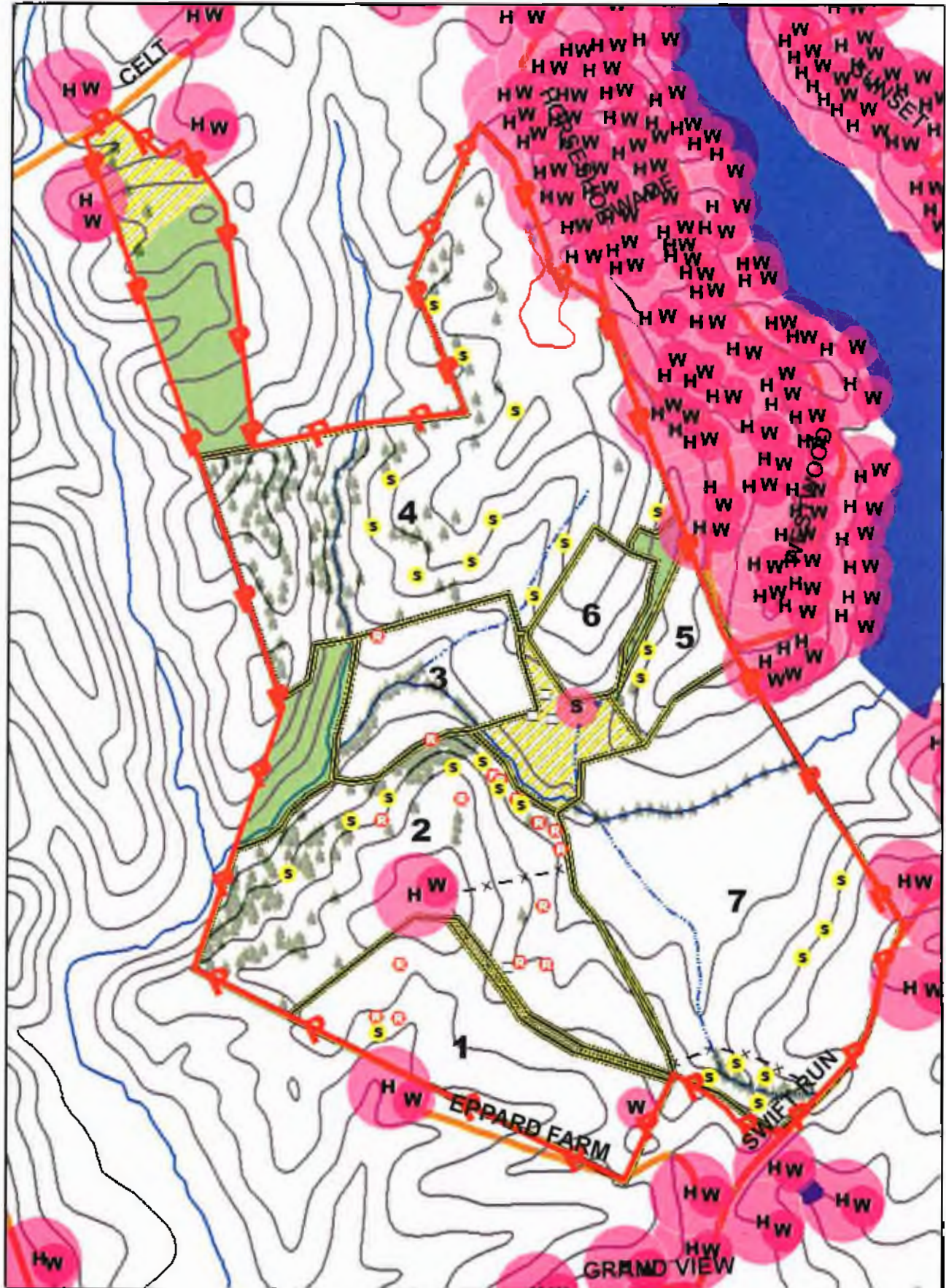


Scale: 1" = 500'

GRCLM 7

SITE PLAN

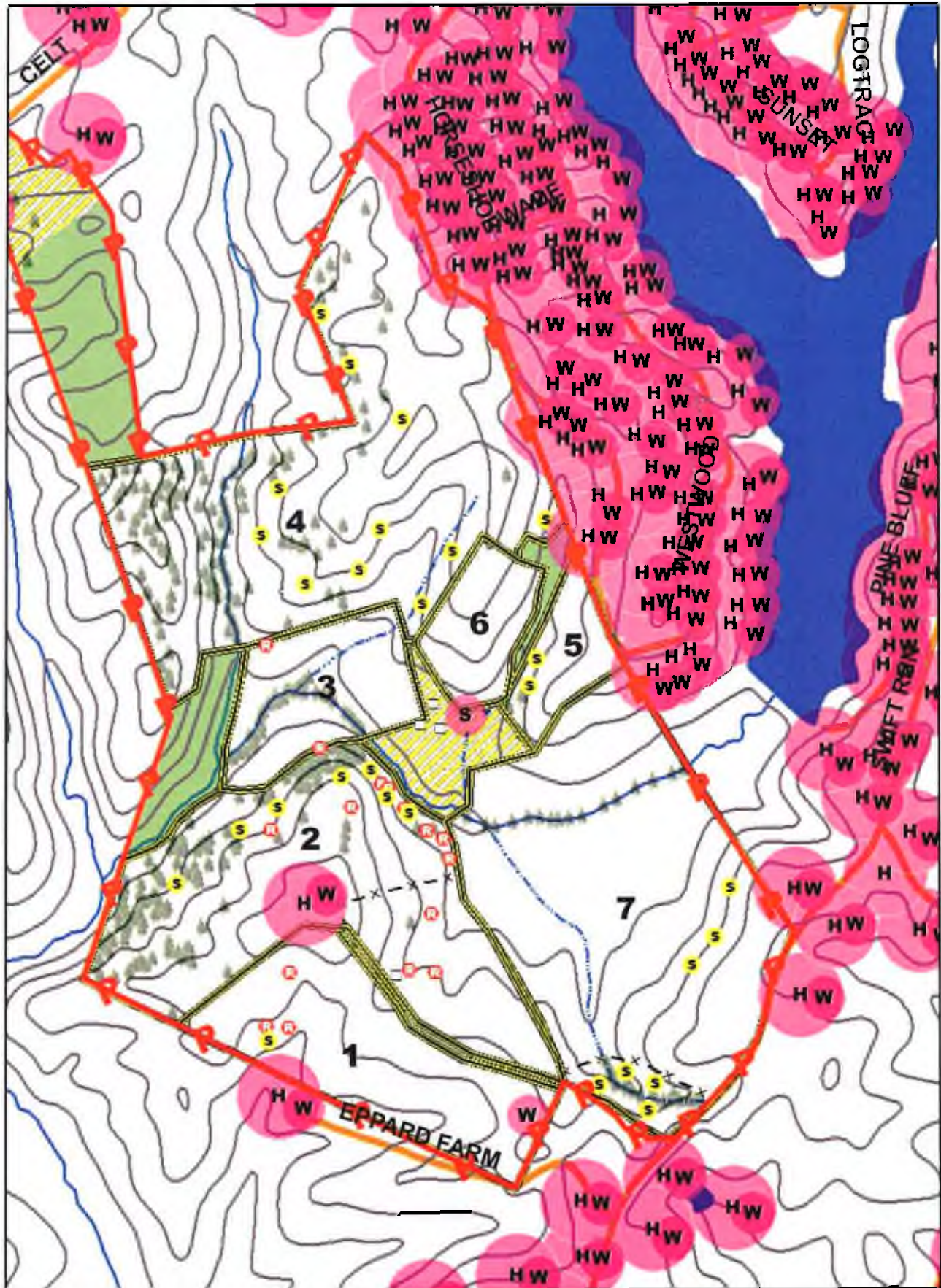




2-22-18

Site Map

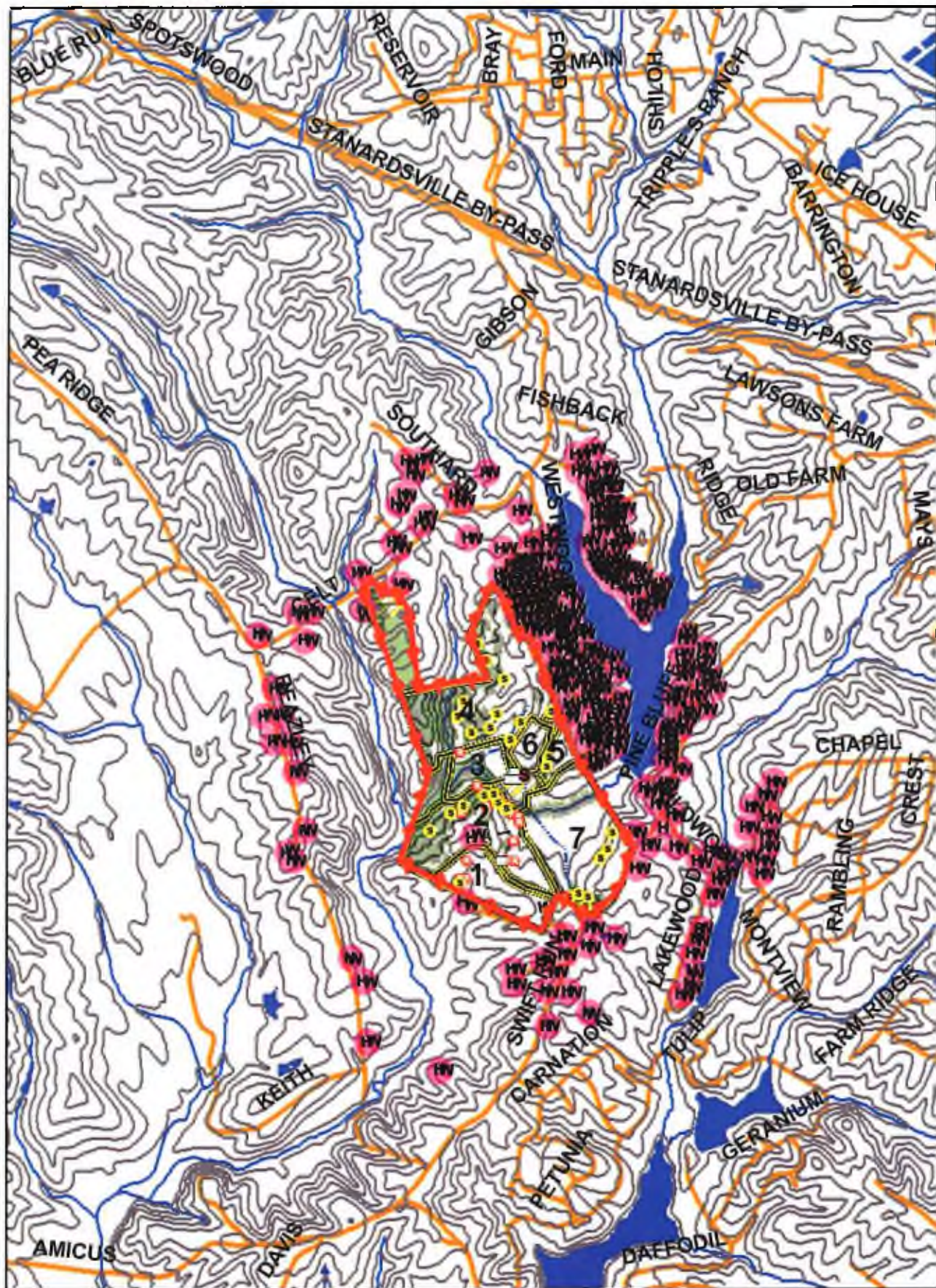
1 in = 660 feet



2-22-18

Site Map

1 in = 660 feet



2-22-18

Topographic Map

1 in = 2,000 feet